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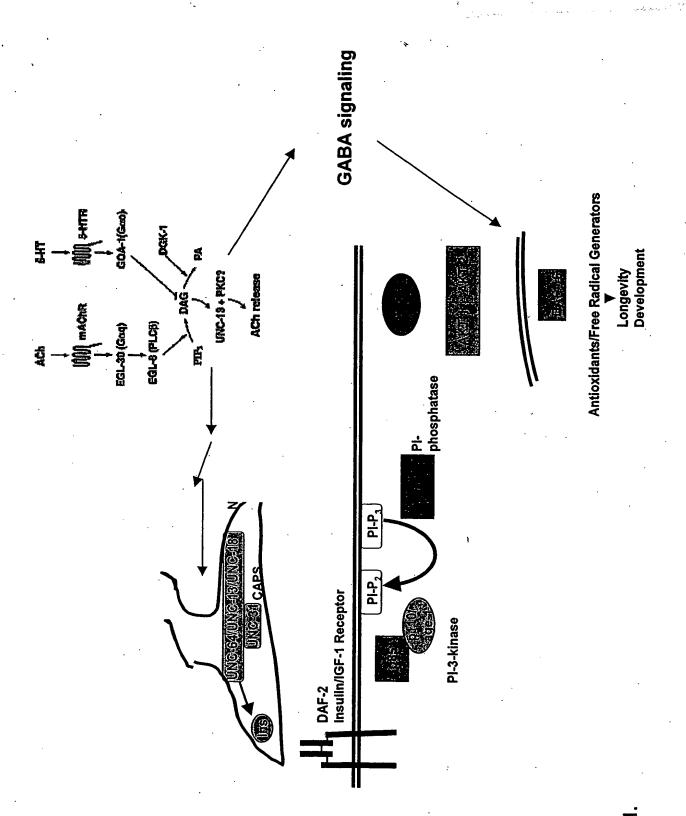
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Title: NEUROTRANSMITTER SIGNALING CAN REGULATE LIFE SPAN IN C. ELEGANS

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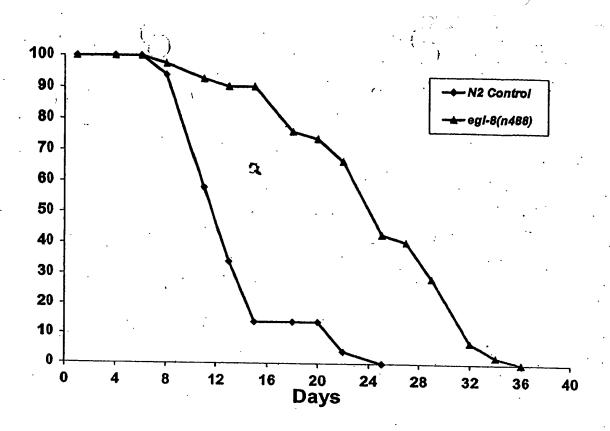


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N2: 13.8 ± 0.6 days egl-8(n488): 25 ± 1.1 days

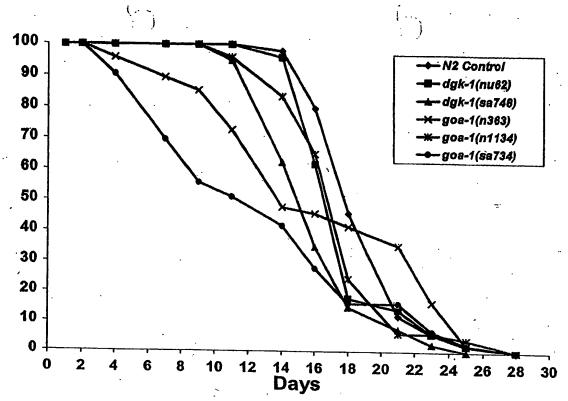
Figure 2

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N2: 19.4 ± 0.4 days

dgk-1(nu62): 18.2 ± 0.4 days

dgk-1(sa748): 16.5 ± 0.5 days

goa-1(n363): 16.8 ± 1.0 days

goa-1(n1134): 18 ± 0.5 days

goa-1(sa734): 13.2 ± 1.0 days

Figure 3

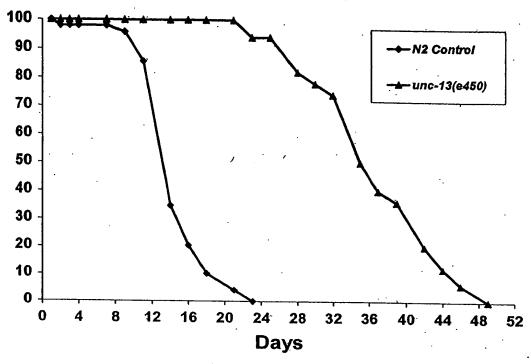
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N2: 14.8 ± 0.5 days

unc-13(e450): 36.8 ± 1.0 days

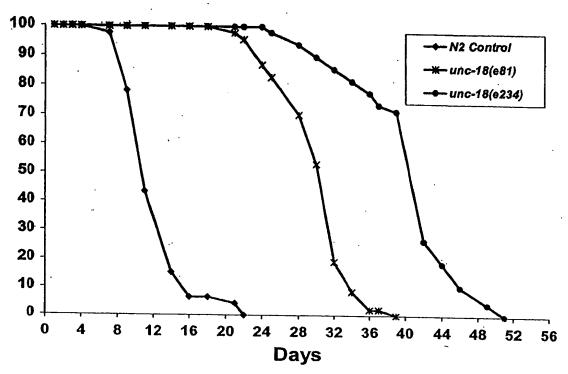
Figure 4

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N2: 12.5 ± 0.5 days

unc-18(e81): 30.3 ± 0.6 days

unc-18(e234): 40.6 ± 0.9 days

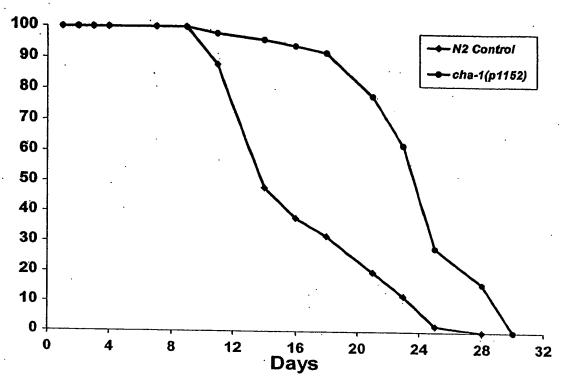
Figure 5

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N2: 17 ± 0.7 days

cha-1(p1152): 24.5 ± 0.6 days

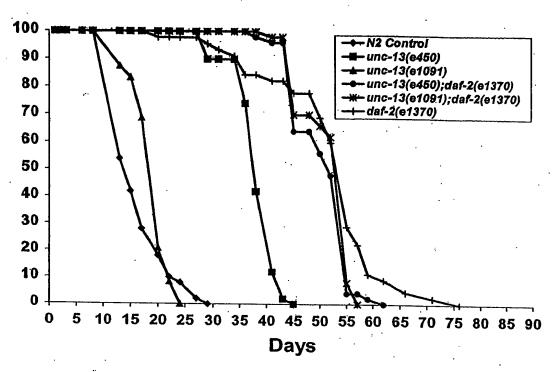
Figure 6

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N2: 16.6 ± 0.7 days

unc-13(e450): 38.3 ± 0.6 days

unc-13(e1091): 19.1 ± 0.4 days

daf-2(e1370): 52 ± 1.6 days

unc-13(e450); daf-2(e1370): 50.8 ± 0.7 days

unc-13(e1091); daf-2(e1370): 51.8 ± 0.7 days

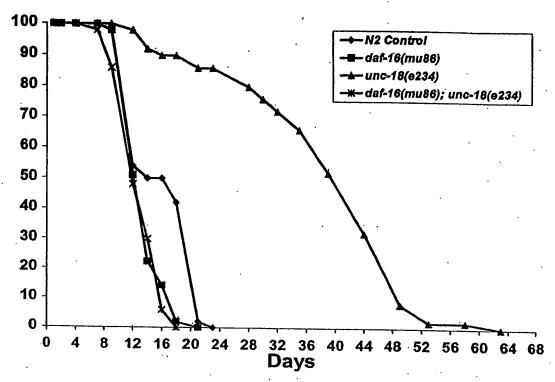
Figure 7

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N2: 16.3 ± 0.6 days

daf-16(mu86): 13.8 ± 0.3 days

unc-18(e234): 36.5 ± 1.6 days

daf-16(mu86); unc-18(e234): 13.2 ± 0.4 days

Figure 8

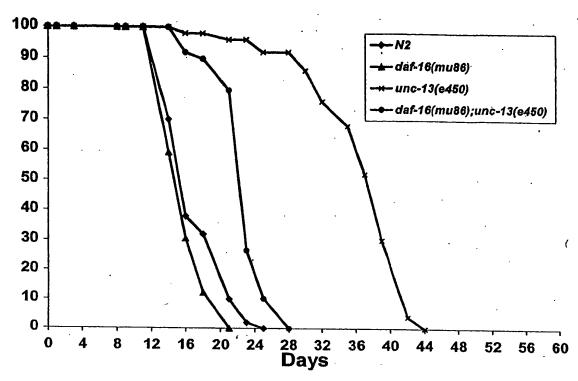
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N2: 17.4 ± 0.5 days

daf-16(mu86): 16.2 ± 0.3 days

unc-13(e450): 36.7 ± 0.8 days

daf-16(mu86);unc-13(e450): 23 ± 0.4 days

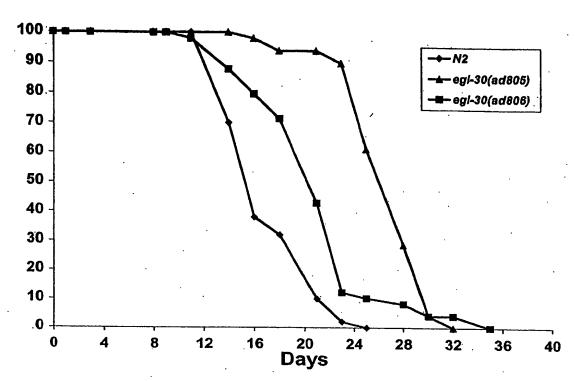
Figure 9

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N2: 17.4 ± 0.5 days

egl-30(ad805): 26.9 ± 0.5 days

egl-30(ad806): 21.2 ± 0.7 days

Figure 10

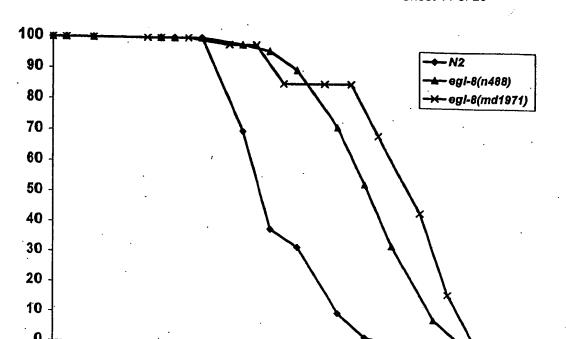
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16 2 Days

20

24

N2: 17.4 ± 0.5 days

egl-8(n488): 24.2 ± 0.5 days

egl-8(md1971): 26.2 ± 0.7 days

8

12

Figure 11

32

36

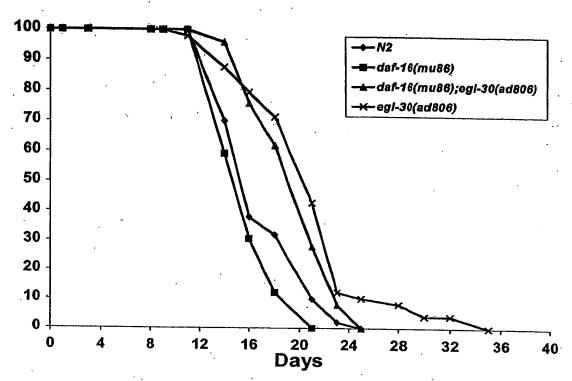
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N2: 17.4 ± 0.5 days

daf-16(mu86): 16.2 ± 0.3 days

egl-30(ad806): 21.2 ± 0.7 days

daf-16(mu86);egl-30(ad806): 20.0 ± 0.4 days

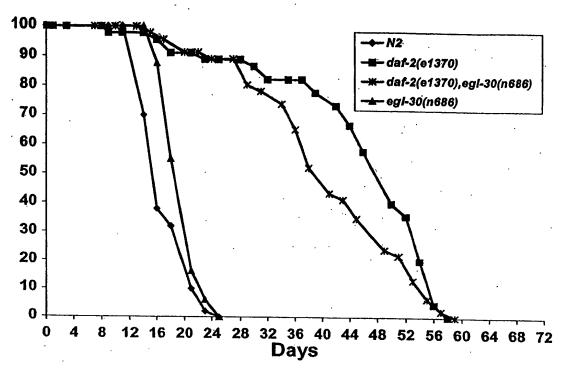
Figure 12

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N2: 17.4 ± 0.5 days

daf-2(e1370): 45.5 ± 1.9 days

egl-30(n686): 19.9 ± 0.4 days

daf-2(e1370);egl-30(n686): 40.7 ± 1.7 days

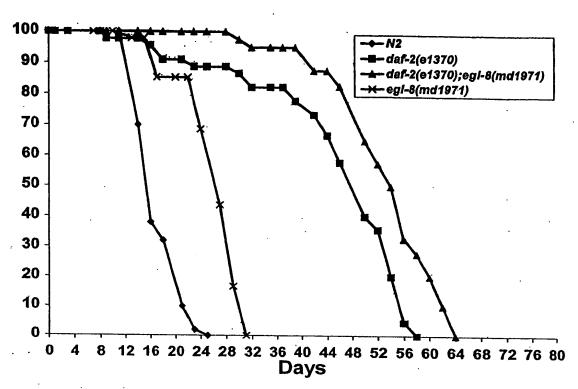
Figure 13

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N2: 17.4 ± 0.5 days

daf-2(e1370): 45.5 ± 1.9 days

egl-8(md1971): 26.2 ± 0.7 days

daf-2(e1370);egl-8(md1971): 53.5 ± 1.3 days

Figure 14

App No.: Not Yet Assigned Inventor: Heidi A. TISSENBAUM Title: NEUROTRANSMITTER SIGNALING CAN REGULATE LIFE SPAN IN C. ELEGANS Sheet 15 of 20 --- daf-16; daf-2(e1370);ric-8(md1909) → daf-16; ric-8(md1909) → daf-2; ric-8(md1909) -- daf-16; ric-8(md303) -- ric-8(md1909) --- daf-2(e1370) -- ric-8(md303) 1.42685136 10.089362 Figure 15 → N2 48 1.06879602 7.40483607 32.2916667 8 22.1702128 1.0156401 6.9628777 **4** 2 span of ric-8 mutants 2.61105343 0.36925872 15.32 8 22 0.42800581 13.5918367 2.9960407 20 49 8 No.of days 2.9993209 0.4374959 14.93617 റ്റ 33 9.639213709 1.406023826 41.0212766 <u>_</u> 28 16.255319 3.7272321 0.5436727 26 10 lean lifespan. andard error Maximum o. of worms 120 100 8 8 5 20 0

Per cent alive

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1.30764136

0.61565414

0.44266113

0.46182301

0.52378586

0.49893869 33

0.3125928

1.427648896

0.4617261 24

8

2

7

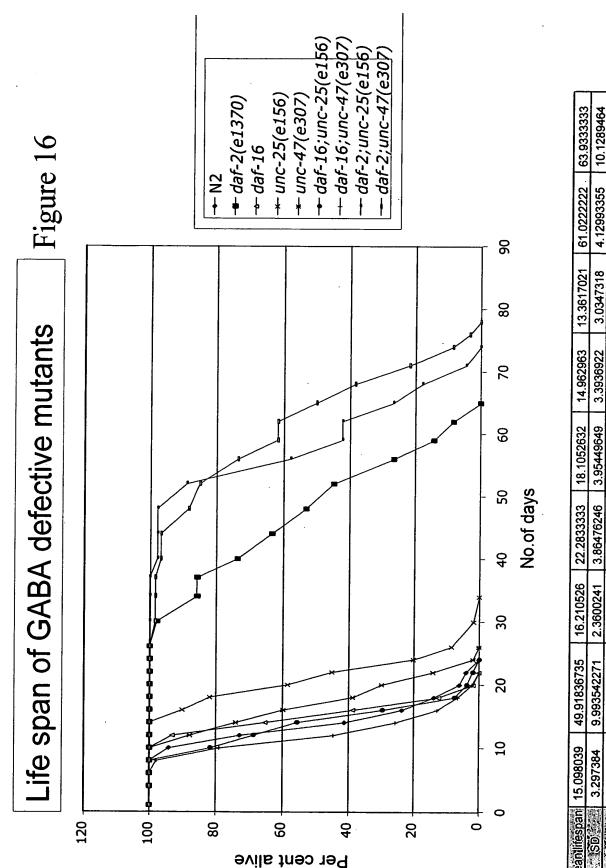
22

24

8

45

9



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9

Per cent alive

40

20

8

0

120

100

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Per cent alive

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